

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Akira KIKITSU, et al.

SERIAL NO: NEW APPLICATION

GAU:

FILED: HEREWITH

EXAMINER:

FOR: PERPENDICULAR MAGNETIC RECORDING MEDIUM

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☒ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

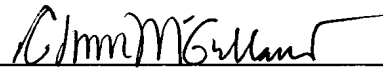
- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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### LIST OF RELATED CASES

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
PER CLIENT	6,174,597	01/16/01	YUSU et al.
PER CLIENT	5,652,054	07/29/97	KIKITSU et al.
0039-7490-2SRD	6,602,620	08/05/03	KIKITSU et al.
221477US0RD	10/108,431	03/29/02	KAMATA et al.
235740US3SRD	10/396,514	03/26/03	AKIYAMA et al.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**STATEMENT OF RELEVANCY**

**Reference AA (5,956,216) on Form PTO-1449:**

This publication is referred to in the specification. See page 2, line 12.

**Reference AO (59-139138) on Form PTO-1449:**

A typical structure of a perpendicular patterned media is disclosed. However, a recording layer is patterned. No soft under layer is patterned.

**Reference AW on Form PTO-1449:**

A soft magnetic layer is placed on a recording layer. However, both layers are not patterned. The effect of the soft layer (keeper layer) is to reduce the demagnetization energy in the longitudinal magnetic recording layer.

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

243213US2SRD

SERIAL NO.

NEW APPLICATION

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Akira KIKITSU, et al.

FILING DATE

HEREWITH

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,956,216	9/21/99	Stephen Y. CHOU			
	AB	6,174,597 B1	1/16/01	Keiichiro YUSU, et al.			
	AC	5,652,054	7/29/97	Akira KIKITSU, et al.			
	AD	6,602,620 B1	8/5/03	Akira KIKITSU, et al.			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	59-139138	8/9/84	Japan		x
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	B. GOOCH, et al. "A HIGH RESOLUTION FLYING MAGNETIC DISK RECORDING SYSTEM WITH ZERO REPRODUCE SPACING LOSS," IEEE Transactions on Magnetics, Vol. 27, No. 6, November 1991, pg. 4549-4554.				
	AX					
	AY					
	AZ					<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.